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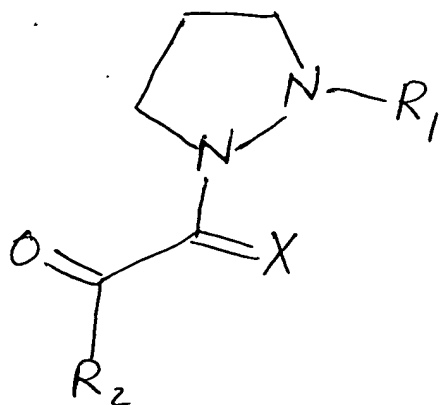
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..


$$X = 0,5$$

$X = O, S$   
 $R_1 =$ 
 $\begin{array}{l}
 -C-(\text{any group}) ; -O-(\text{any group}) ; -COOH ; \\
 -COO-(\text{ " " }) ; -S-(\text{ " " }) ; -SO_3H ; \\
 -CO-(\text{ " " }) ; -NHCO-(\text{ " " }) ; -CN ; \\
 -SO_2H-(\text{ " " }) ; -N-(\text{ " " }) ; \\
 -PO_2-(\text{ " " }) ; -CON-(\text{ " " }) ; \\
 -PO_3-(\text{ " " }) ; -CONH(O)-(\text{ " " }) ; \\
 \quad \quad \quad -CONHNH(SO_2)-(\text{ " " }) ;
 \end{array}$

$R_2 = H, Alk (sat'd + unsat'd), Rings (aromatic + non-aromatic).$   
 ↳ including heterocycles

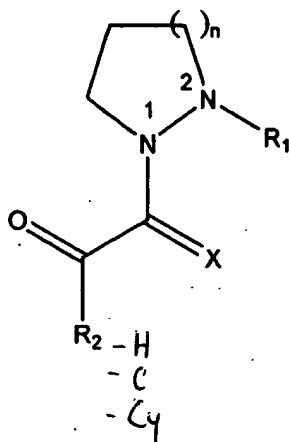
see also claims 1 & species in claim 3

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A compound of formula I



~~or a pharmaceutically acceptable salt, ester or solvate thereof, wherein:~~

or a pharmaceutically acceptable salt or ester thereof, wherein:

$n = 1-3$ ;

$R_1$  is selected from the group consisting of  $-\text{CR}_3$ ,  $-\text{COOR}_3$ ,  $-\text{COR}_3$ ,  $-\text{COOH}$ ,  $-\text{SO}_3\text{H}$ ,  $-\text{SO}_2\text{HNR}_3$ ,  $-\text{PO}_2(\text{R}_3)_2$ ,  $-\text{CN}$ ,  $-\text{PO}_3(\text{R}_3)_2$ ,  $-\text{OR}_3$ ,  $-\text{SR}_3$ ,  $-\text{NHCOR}_3$ ,  $-\text{N}(\text{R}_3)_2$ ,  $-\text{CON}(\text{R}_3)_2$ ,  $-\text{CONH}(\text{O})\text{R}_3$ ,  $-\text{CONHNHSO}_2\text{R}_3$ ,  $-\text{COHNSO}_2\text{R}_3$ , and  $-\text{CONR}_3\text{CN}$ ;

$R_2$  is selected from the group consisting of hydrogen,  $\text{C}_1$ - $\text{C}_9$  straight or branched chain alkyl,  $\text{C}_2$ - $\text{C}_9$  straight or branched chain alkenyl,  $\text{C}_2$ - $\text{C}_9$  straight or branched chain alkynyl, aryl, heteroaryl, carbocycle, and heterocycle, wherein said alkyl, alkenyl, alkynyl, aryl, heteroaryl, carbocycle, and heterocycle is unsubstituted or substituted with one or more substituents selected from  $\text{R}_3$ ;

$R_3$  is selected from the group consisting of hydrogen,  $\text{C}_1$ - $\text{C}_9$  alkyl,  $\text{C}_2$ - $\text{C}_9$  straight or branched chain alkenyl,  $\text{C}_2$ - $\text{C}_9$  straight or branched chain alkynyl,  $\text{C}_1$ - $\text{C}_9$  alkoxy,  $\text{C}_2$ - $\text{C}_9$  alkenyloxy, aryloxy, phenoxy, benzyloxy, hydroxy, carboxy,  $\text{C}_1$ - $\text{C}_9$  thioalkyl,  $\text{C}_2$ - $\text{C}_9$  thioalkenyl,

C<sub>1</sub>-C<sub>9</sub> alkylamino, C<sub>2</sub>-C<sub>9</sub> alkenylamino, cyano, nitro, imino, sulfonyl, ~~thiocarbonyl~~, sulfhydryl, halo, haloalkyl, trifluoromethyl, aryl, heteroaryl, carbocycle, and heterocycle,

wherein said alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, aryloxy, thioalkyl, thioalkenyl, alkylamino, alkenylamino, aryl, heteroaryl, carbocycle, or heterocycle group is optionally substituted with a hydroxy, carboxy, ~~carbonyl~~, cyano, nitro, imino, sulfonyl, thiocarbonyl, sulfhydryl, halo, haloalkyl, trifluoromethyl, aryl, heteroaryl, carbocycle, or heterocycle group; and

X is O or S,

wherein the heteroaryl, carbocycle, and heterocycle are selected from cyclopentyl, cyclohexyl, cycloheptyl, phenyl, benzyl, naphthyl, indenyl, azulenyl, fluorenyl, anthracenyl, indolyl, isoindolyl, indolinyl, benzofuranyl, benzothiophenyl, indazolyl, benzimidazolyl, benzthiazolyl, tetrahydrofuranyl, tetrahydropyranyl, pyridyl, pyrrolyl, pyrrolidinyl, pyridinyl, pyrimidinyl, purinyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, quinoliziny, furyl, thiophenyl, imidazolyl, oxazolyl, benzoxazolyl, thiazolyl, isoxazolyl, isotriazolyl, oxadiazolyl, triazolyl, thiadiazolyl, pyridazinyl, pyrimidinyl, pyrazinyl, triazinyl, trithianyl, indoliziny, pyrazolyl, pyrazolinyl, pyrazolidinyl, thienyl, tetrahydroisoquinolinyl, cinnolinyl, phthalazinyl, quinazolinyl, quinoxaliny, naphthyridinyl, pteridinyl, carbazolyl, acridinyl, phenazinyl, phenothiazinyl, phenoxazinyl, adamantyl, pyrrole groups, thiophene groups, pyridine groups, and isoxazole groups.

2. (Original) The compound of claim 1, wherein the compound is non-immunosuppressive.

3. (Currently Amended) The compound of claim 1, wherein said compound is selected from the group consisting of:

3, 3-dimethyl-N-[2-(5-phenylpentanoyl)-tetrahydro-1H-1-pyrazolyl]-1,2-pentanedione;

3, 3-dimethyl-N-[2-(3-phenylpropanoyl)-tetrahydro-1H-1-pyrazolyl]-1,2-pentanedione;

3, 3-dimethyl-1-[2-(5-(3-pyridyl) pent-4-ynoyl)-pyrazolidinyl]pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(5-(cyano) pent-4-ynoyl)pyrazolidinyl]-pentane-1, 2-dione;

3, 3-dimethyl-1-[2-(4-phenylbutanoyl) ~~pyrazolidinyl~~]pentane-1, 2-dione;  
3, 3-dimethyl-1-[2-(6-phenylhexanoyl) ~~pyrazolidinyl~~]pentane-1, 2-dione;  
3, 3-dimethyl-1-[2-(5-(3-pyridyl) pentanoyl) ~~pyrazolidinyl~~] pentane-1, 2-dione;  
3-phenylpropyl 2-(3,3-dimethyl-2-oxopentanoyl)-~~pyrazolidine~~carboxylate;  
3-(3-pyridyl) propyl 2-(3, 3-dimethyl-2-oxopentanoyl) ~~pyrazolidine~~carboxylate;  
4-phenylbutyl 2-(3, 3-dimethyl-2-oxopentanoyl)-~~pyrazolidine~~carboxylate;  
2-phenylethyl 2-(3, 3-dimethyl-2-oxopentanoyl)-~~pyrazolidine~~carboxylate;  
3, 3-dimethyl-1-[2-(6-phenylhexanoyl) perhydro-pyridazinyl]pentane-1, 2-dione;  
3, 3-dimethyl-1-[2-(6-(3-pyridyl) hexanoyl)-perhydropyridazinyl] pentane-1, 2-  
dione;  
3-phenylpropyl 2-(3,3-dimethyl-2-oxopentanoyl)perhydropyridazinecarboxylate;  
4-phenylbutyl 2-(3,3-dimethyl-2-oxopentanoyl)-perhydropyridazinecarboxylate;  
5-phenylpentyl 2-(3,3-dimethyl-2-oxopentanoyl)-perhydropyridazinecarboxylate;  
4-(3-pyridyl) butyl 2-(3,3-dimethyl-2-oxopentanoyl)-  
perhydropyridazinecarboxylate;  
3, 3-dimethyl-1-[2-((5-phenyl) pentanoyl) perhydropyridazinyl] pentane-1, 2-  
dione; and  
or a pharmaceutically acceptable salt, ester or solvate thereof, wherein:  
or a pharmaceutically acceptable salt or ester thereof.